

NATURAL LEARNING GOALS 2019-2020

ELLA

- Amazon rainforest animals
 - “100 species undiscovered in Amazon Rainforest”
 - Wild Kratz
- Africa and China
 - Cultures (art, language, geography, dance, clothing, animals, beliefs)
 - Biome (create topography with miniatures to show what it really looks like)
 - Research, prepare and demonstrate a dance
- Snakes
 - Research
 - Videos
 - Interactive reptile experience (hold, touch, etc.)
- Birds
 - How birds fly
 - Aviary for observation and hands on research
- Aerodynamics
 - How things fly
- Hang gliding
 - Hang gliding course in Outer Banks
- Planets and the stars
 - Visit darkest place in U.S. (Nevada desert) to observe Milky Way
 - Observatory options
- Math
 - Dividing fractions by fractions (left off)
 - Look for tactile tools to represent math concepts
 - Ipad app, online class/coursework
- Technology
 - Programming basics
 - How coding makes things happen
 - Marble game that applies coding concept
- Expo Project
 - Completion by winter break
 - Artwork with snakes + paragraph write up on
- Butterflies
 - Life cycle: from caterpillars to butterflies
 - Get caterpillars to observe and do hands on research as they evolve into chrysalis then butterfly

NATE

- Computers & technology
 - Build a computer from the ground up
 - Ask Adam about
 - How to use code/program on the built computer
- Stars and space
 - How space and time work
 - Planetarium
 - Observatory options
 - Desert travel
 - Future travel: NASA?
- Go Kart
 - Research how it works
 - Research types of go karts
 - Off-roading versions
 - Participate in local go kart course
 - Research options for ownership of go kart
- Quad
 - How to drive one
 - Research options for renting a quad for an off road course experience
 - Off road experience (minimum in dirt or backyard) for fun not competition
- Explore what it is like to participate in a sleepover
 - Conduct hands on experiment with at home sleepover with siblings
 - Participate in zoo overnight sleepover experience with family
- Gardening
 - Research vegetables and best growth environments
 - Research set up
 - Create set up, buy plants/seeds, grow/manage garden
- Math
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 - Look for tactile tools to represent math concepts
 - Ipad app, online class/coursework

FIONA

- Learn how to make donuts
 - Online resources, videos
 - Visit to donut store for hands on experience
- Learn how to make shredded cheese
 - Online resources
 - Farm program where cheese is made?
- Go to the Children's Museum
- Go to Natural History Museum
- How to make cupcakes
 - From mix vs. from scratch
 - With bakers tools (icing bags and special tops to make swirls)
 - Decorative items to "make them look delicious"
 - **Have taste testing for Ella and Nate with final products
- Wondering how technology works
 - Ipad, phones, computers and watches
- Go to Skyzone
- Learning about how the human body works
 - Specifically the heart
 - Online resources
 - Research library course re: the humane body
 - Human Body book
- How venom works with animals
 - Zoo?
 - Class/lesson around topic
 - Wild Kratz
- Reasons dogs can't have chocolate
 - Online resources
 - Check in with veterinarian at next visit
- Reasons things smell so bad
 - Hands on experiments to see what smells bad and why
 - Mad Science?
- Plants
 - Reasons for herbivores being herbivores
 - Zoo
 - Botanical Gardens, Phipps Conservatory
 - Natural History Museum
- How brainstorming works
 - Group demonstrations
- How seashells and sea glass forms
 - Online resources (videos, books, etc.)
 - Hands on experiments with shells
 - Outer Banks tie in?
- Reasons it's so important to stay healthy
 - Group discussions

- Carnegie Science Center
 - Online resources
- Learn how to make string cheese
 - Online video/resource
- Learn how to make Pirate Booty
 - Online video/resource
- Learn how to sew
 - Group demonstration
 - Ella will lead
 - Craft Store option?

GROUP GOALS

- Year Book
 - Photography
 - Editing
 - Design
 - Printing of final product
 - **Ella wants to assist with all aspects of creation of
 - **Nate
 - **Fi would like to help with photography
- Community Giving Back Project
 - Option 1: Nose 2 Tail Cat Rescue
 - Update rescue with current pictures/descriptors of our cats
 - Ella contributed updated photography of cats
 - Birthday \$ donations from Ella
 - Contact ED via text and ask how we could be of most assistance
 - Suggested assistance:
 - Option 2: The Grand Residence
 - Contact Grand Residence and ask what would be most helpful
 - Option 3: Research needs in our community
- Martial Arts/ARMOR or bully prevention class
 - Bridgeville ProMartial Arts:
 - Saturdays 10-10:40 Lil Rhinos/ARMOR 3-5
 - Saturdays 10:50-11:30 a.m. Basic Beginner 6+, 11:40-12 p.m. ARMOR
 - **Ella is interested
 - **Nate
 - **Fi is interested in trying 1 class (nervous to not be in same class as bigger kids).
- Book Club
 - Meet ___ to read book as a group to read and discuss chosen book
- Classroom Pet
 - Russian Tortoise
- Set up mediation and/or yoga practice at home
 - Morning ritual?
- Monthly financial gifts to organizations
 - Research options
 - Decide on amounts, set up gifts, send gifts
- Self Care
- Family Travel
 - Outer Banks
 - Nevada desert
 - Join Adam on work trip(s)
 - Travel goal locations: Hawaii (Fi),